(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 3 February 2005 (03.02.2005)

PCT

(10) International Publication Number WO 2005/010109 A2

(51) International Patent Classification⁷:

C09D 11/00

(21) International Application Number:

PCT/US2004/022763

(22) International Filing Date: 14 July 2004 (14.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

0316857.2 18 July 2003 (18.07.2003) GB 0325537.9 1 November 2003 (01.11.2003) GB

- (71) Applicant (for all designated States except US): THE LUBRIZOL CORPORATION [US/US]; 29400 Lakeland Blvd., Wickliffe, OH 44092-2298 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): THETFORD, Dean [GB/GB]; P.O. Box 42, Hexagon House, Blackley, Greater Manchester M9 8ZS (GB).
- (74) Agents: LAFERTY, Samuel, B. et al.; The Lubrizol Corporation, Patent Dept./Mail Drop 022B, 29400 Lakeland Blvd., Wickliffe, OH 44092-2298 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMPOSITIONS

$$RO$$
— $(Y)_x$ — T — N — A — Z — W_{0-v} (I)

(57) Abstract: The present invention provides a composition containing a particulate solid, an organic medium and/or water and a compound of Formula (1) and salts thereof; wherein R is $C_{1.50}$ -optionally substituted hydrocarbyl; Y is $C_{2.4}$ -alkyleneoxy; T is $C_{2.4}$ alkylene; A is the residue of a dibasic acid or anhydride thereof; Z is the residue of a polyamine and/or polyimine; W is the residue of an oxide, urea or dibasic acid or anhydride thereof; x is from 2 to 60; and v represents the maximum available number of amino and/or imino groups in Z which does not carry the group $RO_{-}(Y)_{x}$ -T-NH-A-. The invention further discloses the composition as a dispersant for an organic media.



